

# TRACK

## Global Positioning System

From damage assessment to resource planning,  
a new technology takes hold in the BLM

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Trash Force

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### Published By

U.S. Department of the Interior  
Bureau of Land Management  
1849 C Street, N.W.  
Washington, D.C. 20240  
Cy Jamison, Director  
Susan Lamson, Deputy Director  
for External Affairs  
Nancy Guiden, Chief,  
Division of Public Affairs  
Elizabeth Rieben, Editor  
Nancy Spencer, Assistant Editor

### Tracking Personnel

Tracking Personnel is compiled  
from information submitted by  
State Office Personnel Branches  
to the Service Center in Denver.



*"I had originally wanted the pilot to fly under 500 feet so we could pinpoint the sites more accurately, but he had been shot at a week earlier in the riots and didn't want to fly any lower. When I thought about it, I didn't want to go any lower either." Ignacio Lopez, BLM geodesist (right).*

## Flying Over LA

### BLM pinpoints damage sites with latest technology

The entire Nation listened with disbelief as riots destroyed hundreds of homes, businesses and lives in the Los Angeles area. As the looting, arson and killing subsided and the city began the arduous task of assessing the damage, help came and is still coming from all areas.

As part of the efforts to assess the damage, the California Office of Emergency Services (OES) requested the

assistance of BLM-California's branch of Cadastral Survey to identify the exact location of burned and looted businesses and homes. BLM geodesist Ignacio Lopez and a National Guard helicopter crew flew over the damaged areas and in 3 hours, using the Pathfinder Global Positioning System (GPS), pinpointed 200 sites within 2 to 5 meters.

The GPS unit must have a direct line between the an-

*(continued next page)*



## Global Positioning System: A Primer

Many BLM offices are beginning to use GPS as a resource mapping tool. Utah has mapped a number of off-highway vehicle trails and roads, including the the world famous Slickrock Bike Trail, using GPS. Don Buhler and Robin Floor of the Utah State Office offer the following introduction to the technology, excerpted from the January issue of the Utah Spectrum.

### **Where did GPS come from?**

GPS is a military-conceived system of orbiting satellites that provides precise radio navigation information to anyone with a GPS receiver, anywhere on the planet. The military uses these receivers to position aircraft, missiles, ships, ground vehicles and troops.

### **Complex technology, easy to use**

The advanced technology of GPS gives us the capability to simply carry a small hand-held unit as we travel down a road or trail and receive position information via orbiting satellites. The data can then be directly translated in the Geographic Information System (GIS) for automated mapping.

### **New receivers easier and cost effective**

There are two levels of accuracy available using GPS. Traditionally, civilian GPS applications have been used as a measuring tool for surveying with accuracies measured in centimeters. Recently, a less accurate resource grade receiver has been developed with accuracies measured in meters. This receiver is an excellent tool for most applications of resource mapping and is much more affordable and easier to use. Surveying experience is not required.

### **How is this applied to the BLM?**

A typical application of GPS would be for positioning remote or unrecorded roads or trails crucial to development of a resource management plan. To map a road photogrammetrically can be expensive and may deal in accuracies far greater than needed. To produce a ground survey is also expensive. Using GPS, needed data can be gathered simply by driving the road or walking the trail. GPS data can be easily corrected and edited to produce accurate maps.

### **What lies ahead?**

About 90 percent of all GPS receivers are used for navigation of air and sea craft, but experts predict that most commercial vehicles will be equipped within 5 years. The Japanese offer GPS as an option in a number of luxury cars. Eventually, GPS will be as common as a hand compass.

Eventually,  
GPS will  
be as  
common  
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compass

*GPS, continued from page 1*

tenna and the satellites that send positional data, so the survey crew mounted the GPS antenna on the front of a Bell Jet Ranger helicopter.

The OES will plot the information from the GPS onto existing base maps and correlate the information with police reports.

According to Lance Bishop, BLM field section chief, "The OES is hoping the

data will help the city determine the extent of damage and how much riot relief funding each city is entitled to receive. If OES determines the data is useful, Ignacio will return to Los Angeles to complete the work."

Plotting damaged areas in Los Angeles is only one use of GPS. "We are currently experimenting with GPS to create road easement plats in

the Barstow, El Centro, and Palm Springs resource areas," explains Lopez. "What would have taken a crew of four 7 months to complete took a crew of two with survey level GPS only 3 months—achieving a 5 centimeter accuracy level or better!"

—Maria Kammerer,  
California State Office



## Global Positioning System

## New Computer Software Links the BLM with Orbiting Satellites

An ordinary looking U.S. Government minivan cruises Vista Avenue in Boise, Idaho. An antennae is magnetically mounted on the roof. It is connected to a Global Positioning System (GPS) receiver, which feeds satellite signals into a laptop computer. A color monitor mounted near the dash displays a base map of a small section of Boise.

Five passengers gaze intently at the screen. Robin Floor, a BLM resource GPS coordinator from the Utah State Office, punches in some computer instructions on her laptop keyboard.

"As you can see," she explains, "the dot that just appeared on the base map clearly shows our position on Vista Avenue. Our latitude is 43°36'54.31"N, our longitude is 116°13'27.09"W, and our elevation is 2,826.45 feet."

Floor was in Idaho demonstrating the GeoLink GIS/GPS software package which allows users to easily map an

area by combining GPS and GIS technologies. GeoLink is one of the first software packages of its kind to enter the commercial market.

As the demonstration continued, Floor showed the Idaho State Office passengers how easy it is to add information to the base map. "We're coming up on a McDonald's to

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*A resource specialist could strap on a small computer and map a riparian area while walking around it.*

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our right. I'll designate a key to indicate this on the map and make a note of it in my log. From here on, anytime I hit the 'F3 key,' it will indicate a McDonald's." An "X" for McDonald's appeared on the computer screen showing its location along Vista Avenue.

Floor pointed out that the technology is not a substitute for detailed mapping. "We're digitizing. Under the best

conditions we can get an accuracy within 3 to 5 meters." As we were traveling along our demonstration route, we were informed that our accuracy that day was within 10 to 30 meters due to factors such as atmospheric conditions and available satellite geometry.

According to Jeff Lee, Idaho State Office geodesist, GPS with GeoLink is the perfect tool for BLM inventories. "A resource specialist could, let's say, strap on a small computer and map a riparian area while walking around it."

He said the potential uses seem endless. "We could map fire boundaries and determine acreages instantly from a helicopter, locate cattle guards on routine field trips or record reseeding areas. Our law enforcement folks could easily map and locate trespass areas," adding that within a few years every office in the BLM will probably be using similar software.

Kris Long, Idaho State Office



A new generation of Global Positioning System (GPS) software makes map digitizing easy and adaptable to the BLM's resource inventory environment.

*Editor's Note—At this time, a special task force is working on a Bureauwide GPS implementation plan to ensure accuracy and consistency of GPS data throughout the BLM. The first draft should be completed this summer. For more information on this project, contact :*

*Robert Scruggs, Eastern States Office, (703) 461-1372.*

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Denver Federal Center  
Bldg. 50, OC-521  
P.O. Box 25047  
Denver, CO 80225**



## New Staff to Coordinate International Affairs

The BLM is in the process of creating an international affairs staff to be housed under the Office of External Affairs in Washington, D.C. The staff will be responsible for coordinating all of the Bureau's international projects.

Susan Lamson, deputy director for External Affairs, indicated that position descriptions for three professional staff members are being developed. It is hoped that an international affairs staff will be in place by the fall. The establishment of such a staff is a product of the BLM's reorganization, and will enable the agency to more effectively respond to growing international interests in land and multiple-use resource management.

### Shared borders

Director Cy Jamison recently released guidelines for the BLM's international activities. The first of four categories of international activities discussed is transboundary coordination. That title is used to describe work involving another country on a management problem that crosses a shared border. For example, the BLM is active in projects such as wildfire suppression and grizzly bear recovery with Canada, and riparian area management with Mexico.

### Scientific exchange

Scientific and technical exchanges, the second category, describes exchanges of information or cooperative applied research projects that



Geologists from China visit copper mines in Arizona.

are expected to be mutually beneficial to the parties involved. Examples include the recent signing of a protocol between China's State Land Administration and the BLM, and a global climate change monitoring project established with Russia. Additionally, Russia is planning to send smoke-jumpers to Fairbanks this summer as part of an exchange with the BLM's Alaska fire service.

In January, Director Jamison led a delegation to Australia to negotiate an exchange of mining information and personnel. The future should see more contact with Australia, as well as China and Russia. The goal of such projects is to serve the BLM's domestic mission through sharing information on management of natural resources similar to those on BLM lands.

### Training

The third category is training and technical assistance. For example, a team of BLM firefighters has been helping Honduras develop a fire management program after the country's worst fire season. In Hungary, the BLM is helping establish a minerals

management agency. These projects are funded by either the receiving country, or a third party such as the Agency for International Development.

### Public Lands Promotion

The fourth category, public land promotion projects, is designed to provide foreign countries with information about the recreation, research, and volunteer service opportunities that BLM lands offer.

International interest in the BLM is steadily increasing. About one foreign delegation a week visits to observe and discuss the BLM's land management practices. For example, last December, six geologists from China went on a 10-day tour of copper mines in Arizona. In April, two Egyptian civil engineers visited Denver for 3 weeks to observe the BLM's cadastral survey techniques.

For more information about BLM's international activities, refer to the recently released guidelines in Instruction Memorandum #92-207, or contact Kit Muller at (202)653-8824.

—Polly Schneider,  
Washington, D.C. Office



## Group Fights Destructive Grasses

"When cheatgrass shows up, naturalness begins to disappear," says Mike Pellant, the BLM's coordinator for the restoration project.



Ask Mike Pellant of the Idaho State Office what he thinks the BLM's biggest challenge is in the Great Basin and he probably won't talk about drought, livestock management or wildlife habitat.

Instead, he'll probably talk about cheatgrass, an ordinary looking annual native to Eurasia. And he'll say that cheatgrass is anything but ordinary.

"Cheatgrass is very opportunistic and competitive," says Pellant, the BLM's coordinator for the Intermountain Rangeland Restoration and Wildfire Reduction Project (IRRWRP). "Once a site has been disturbed, cheatgrass can come in and take over. The natural diversity of an area begins to disappear when cheatgrass shows up."

And cheatgrass has been showing up with alarming regularity since it inadvertently was brought to the West by pioneers in the late 1800's. In the Great Basin area of eastern Oregon, northern Nevada, southern Idaho, and western Utah, cheatgrass monocultures now total 2.9 million acres, and it is the primary understory

plant on almost 14 million additional acres.

Yet the most ominous number is the 62 million Great Basin acres the BLM range specialists figure are at risk for invasion by cheatgrass or other annual weeds. Areas disturbed by fire, drought or poor grazing practices are candidates for cheatgrass to move in and quickly dominate.

Loss of natural diversity is only one of the drawbacks of cheatgrass. It dries earlier in the year than most grasses and is highly flammable. It also causes fluctuations in forage for wildlife and livestock, lessens watershed stability and decreases soil productivity. Virtually all rangeland resources are affected when cheatgrass starts a hostile takeover.

Cheatgrass isn't the only invader in the Great Basin. Medusahead wildrye, a feathery looking annual also hailing from Eurasia, is finding the Great Basin area to its liking. It exhibits many of the same nasty traits as cheatgrass—it boosts the spread of wildfire and diminishes the quality of

wildlife habitat and rangeland productivity.

The IRRWRP aims to check the spread of weeds and reclaim key areas where cheatgrass and medusahead have taken control. Part of the project, for example, is to find plants that are vigorous enough to compete with cheatgrass and medusahead. These species can be planted in crucial areas, helping to restore biodiversity.

Searching for shrubs, forbs and grasses tough enough to compete with the weeds is only part of the story. Researchers are also looking for fire resistant plants. They can be planted in "greenstrips," rows of vegetation on areas with a history of frequent wildfire. The theory is that greenstrips will help slow down or stop fires and keep burned areas smaller. In turn, that will help prevent species such as cheatgrass and medusahead from gaining new footholds. More than 320 miles of greenstrips have been planted so far.

IRRWRP is a partnership of four BLM states (Idaho, Nevada, Oregon, and Utah), the Forest Service, and several universities and other agencies. Pellant is realistic about the chances of restoring the millions of acres of altered rangelands in the great Basin.

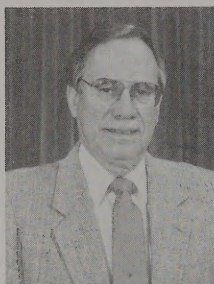
"We're never going to eliminate cheatgrass and medusahead wildrye. What we want to do is first reduce the wildfire problems they pose. Next, we want to restore key sites to a more natural functioning ecosystem," he says.

—Don Smurthwaite  
Idaho State Office

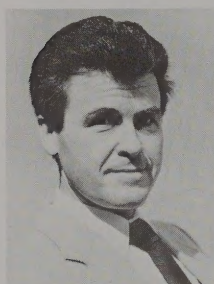


# BLM People

## BLM Managers Receive Presidential Rank Awards



Ed Spang



Tom Allen

The BLM's Alaska state director and a Washington Office assistant director received the prestigious Presidential Meritorious Rank Award in April. Constance Newman, director of the Office of Personnel Management presented the awards to **Edward F. Spang** and **Thomas J. Allen** in Washington, D.C.

The Rank awards are given to members of the Senior Executive Service who have performed exceptionally at an executive level over an extended period of time.

Spang previously served as Nevada state director before moving to Alaska in April of 1990. He was recognized for his balanced approach to management and his work on desert tortoise issues. Spang also led

a Bureauwide task force to review and revise Bureau policy in the Mining Law Administration program. The resulting recommendations are now used by the Washington Office as national policy.

Allen, assistant director for Management Services in Washington, D.C., previously served as Arizona associate state director. In that position, he dramatically increased the efficiency and productivity of the Arizona BLM. Allen was recognized for reforms in financial management which saved a total of \$395,000 for the Bureau, negotiations with WANG for a buyback arrangement which saved several hundred thousand dollars, and initiating a major pilot productivity study in four districts to increase efficiency.

—Nancy Spencer, Washington D.C. Office

## New Public Affairs Chief Named

Nancy Guiden of Munster, Indiana, was selected to head the BLM's Public Affairs Office in Washington D.C.

"Nancy has solid experience in both the governmental and political sides of public affairs," said Director Cy Jamison. "She's just what we need to stay in touch with the millions of public land users across the country."

Most recently, Guiden served at the Office of Surface Mining as a special assistant to the director. Prior to that, she served as director of congressional, legislative and public affairs at the Government Printing Office. Guiden began her career in Washington at the Treasury Department in 1975 in the public affairs office under Secretary William Simon. She



Nancy Guiden (photo by Kim Menning)

also has served at the Dept. of Health and Human Services and the Federal Emergency Management Agency.

A graduate of the Women in Leadership Program of the CORO Foundation, Guiden holds a bachelor's degree from Indiana University. She has been recognized in the World Who's Who of American Women, Outstanding Young Women of America and Who's Who of American Women.

Guiden replaces Mike Ratliff who was named chief of staff for the Agency for International Development.

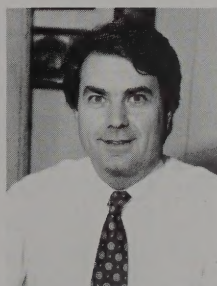
## Five Honored At Convocation

Secretary of the Interior Manuel Lujan presented five BLM employees with awards at the 56th Annual Honor Awards Convocation held May 5 in Washington, D.C.

The highest honor of the Department of the Interior, the Distinguished Service Award, went to **Vincent J. Hecker** and **Marvin D. LeNoue**. Hecker, retired chief of Lands and Realty, was recognized for his work to ensure compliance with the Alaska Native Claims Settlement Act of 1971. LeNoue, director of the BLM's Service Center, manages the project that will automate more than one billion land and mineral ownership records and modernize BLM automation capabilities. He has also served as associate state director and

(continued on page 16)

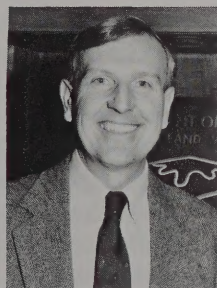




**Bob Abbey** has been named manager for the Jackson, Mississippi, district office. He previously served as program analyst for the budget office in Washington, D.C. In his new position, Abbey will manage the Eastern States' southern region. A native of Mississippi, Abbey is a graduate of Southern Mississippi with a bachelor of science degree in recreation resource management and public administration. He worked for the Mississippi State Park Commission and the Corps of Engineers before joining the BLM in 1980 as an outdoor recreation planner in Casper, Wyoming. Subsequent BLM positions include state wilderness-recreation coordinator in Arizona and assistant district manager for the Yuma District Office.



**Greg Hill**, outdoor recreation planner in California's El Centro resource area, was honored by The American Recreation Coalition at a special ceremony in Washington, D.C., for his efforts to enhance recreation in America. Hill developed a highly productive partnership with the Gold Field Mining Company that resulted in construction of the Mesquite Mine Overlook Interpretive Trail. The self-guided trail enables visitors to view the second largest gold mine in the state and learn about the desert and environmental protection at the same time. (Left to right, Derrick Crandall, ARC president, Greg Hill and Bill Civish, Safford District manager.)



**Tim Hartzell** has been named manager for the Grand Junction, Colorado, district. He previously worked in the Washington Office's budget shop, and has been on detail to Senator Harry Reid's (Nevada) office for the past year. Hartzell was the Elko resource area manager in Nevada from 1983 to 1988 where he supervised the BLM's most active minerals program. Prior to that, he served in several positions in the Burley, Idaho, and Salt Lake, Utah, districts. Hartzell served in the Peace Corps in Central Africa from 1972 to 1974, acting as the Malawi government's first conservation education officer. Hartzell has a bachelor of science degree from Kent State University in Ohio, and a master of science degree from the University of Nevada, Reno.



**Shela McFarlin**, director of the BLM's Anasazi Heritage Center in southwestern Colorado, has been named "Citizen of the Year," by the Dolores Chamber of Commerce. She was recognized both for her exemplary management of the Heritage Center and her involvement in community affairs. McFarlin is working on a committee to open a visitor's center at the Galloping Goose Historical Society Museum. She also is helping to obtain grants to construct and maintain a trail from Dolores to the Heritage Center and on to McPhee Reservoir. In return for the Dolores Volunteer Firemen's assistance at the Heritage Center's grand opening, McFarlin helped them get new air packs, hoses, and portable water tanks. Dolores Chamber of Commerce president Gene Story (left) says, "Shela showed up and the area hasn't been the same since."



## Bringing Us All Together

# The Wild Horses



## Unusual Reunion in Nevada

It was no doubt one of the most unusual reunions in the State of Nevada. The classified advertisement read in part:

*REUNION. 1991 foals born on the Nellis Wild Horse Range. We're looking for you and your adopter to join the Nellis Foal Parade...*

The orphaned foals born on the Nellis Air Force Range were abandoned by their mothers. "Drought conditions forced the mares to go in search of water and food, and the foals simply couldn't keep up," explains Bill Templeton, the BLM's Nevada state director. "Fortunately we were able to gather the foals and provide them with care."

The youngest animals were placed in foster homes. Others were adopted, the strongest directly from the BLM's Palomino Valley Wild Horse and Burro Placement Center or at satellite adoptions.

Even the Marines came to the rescue, providing special transportation to a stable in

Michael Blake, author of *Dances with Wolves*, talks about his adopted wild horse at the Palomino Valley Wild Horse and Burro Placement Center near Sparks, Nevada. This was part of celebrations held on the 20th anniversary of the Wild Horse and Burro Act in September 1991. Photo by Bob Goodman.

Reno. The Marine Corps Mounted Color Guard, based in Barstow, Calif., rides palomino and black horses adopted from Nevada horse herds. The Marine riders were among those participating in the June reunion.

The horse and burro show was sponsored by Wild Horse Organized Assistance (WHOA), the Nevada Commission for the Preservation of Wild Horses and the American Mustang and Burro Association (AMBA). The International Society for the Protection of Mustangs and Burros also contributed. The adoption was managed by the BLM.

During the foal crisis, WHOA and the Commission joined with the BLM via a cooperative agreement to feed and care for the youngest animals. On the heels of the Nellis emergency, the three pooled their resources to commemorate the 20th anniversary of the Wild Horse and Burro Act by participating in the Great Reno Balloon Races. That September 1991 event was viewed by more than 150,000 spectators, several of whom joined in a training session offered by BLM's Fred Wyatt, manager of the

Palomino Center. Nevada is home to the majority of the country's wild horses.

Encouraged by the response, Templeton says the BLM, WHOA and the Commission plan another balloon sponsorship September 11, 12 and 13, 1992. An adoption will be held that weekend also. And further attention will be focused on the horse program by BLM hosting a booth at the National Reining Cow Horse Futurity September 8-13 in Reno.

—Maxine Shane,  
Nevada State Office

## Even More Unusual Rally Through Arizona and Nevada

One might never have known it was Arizona, looking only at the weather. For the 60 riders from 22 foreign countries who crossed the BLM's Arizona Strip District on horseback this spring, it was weather like home — cold and wet. Participants in the *Great Expeditions - Les Cavaliers du Desert* (desert riders) Horse Rally dressed for the cold, snow and biting wind, and went ahead with their event. BLM employees served as guides and ensured the rally organizers' plans came to fruition.

The riders navigated by map, compass and checkpoints over a 30-mile cross-country route to each night's campsite. They had to contend with unfamiliar and rugged terrain, weather, and the clock. The Arizona Strip District, which reaches from the north rim of the Grand Canyon to the Utah



state line and from the Navajo Reservation to the California and Nevada state lines, provided beautiful scenery along with fascinating cultural values.

The 300-mile rally was the fourth such event staged by Claude Vidaillac of Luxembourg and co-organizer Patrick Sance. Previous rallies had crossed similar distances in Argentina, Morocco, and Mongolia. Sance was asked early in the rally if the riders were prepared for bad weather. His response was cause for laughter among BLM Arizona employees. "But of course!" Sance had exclaimed. "They have seen all the Clint Eastwood and John Wayne westerns."

Arizona Strip District Assistant Manager for Resources Brent Jensen provided environmental education and historical information along the way. BLM Phoenix Training Center video crewmembers Bill Deegan and Art Ferraro caught up with the riders several times throughout the rally to record events for *BLM Magazine*. They fought weather-induced equipment problems and the mud to produce quality coverage.

A highlight taped by the PTC video crew was the involvement of Deputy State Director for Lands and Renewable Resources, Beau McClure and his family's adopted wild horse, Cactus Jack. The red roan gelding, adopted in 1987, was a source of great curiosity to the foreigners, whose countries have no wild horses. McClure rode Cactus Jack in the rally-

ending parade through the streets of Las Vegas with Les Cavaliers du Desert.

He joined the riders outside the city, took up the U.S. flag and led the parade wearing his BLM uniform and a Cavaliers red bandana. The parade was greeted by a crowd estimated at several thousand. Vidaillac and Sance thanked, in French and English, the BLM employees who had provided so much assistance and education to rally participants. "We are very grateful to the BLM people for their help," Sance translated for Vidaillac. "The rally would not have been so successful without them. And thanks to Monsieur Beau McClure for teaching us about American wild horses through his wonderful Mustang, Cactus Jack," he concluded.

The BLM's support and education role was successfully fulfilled, McClure noted. "The riders had fun, learned a lot, and rode through some of the most beautiful landscape anywhere. We are very pleased with our involvement in this rally. We've enjoyed a very positive outcome for this international event," he added. "And let's not forget we've made some new friends for the United States, too."

—photos and text this page by  
Dave Jackson, Arizona State Office



Beau McClure, Arizona deputy director, leads the rally parade in Las Vegas.



On his horse, Sadat, Brent Jensen acts as cameraman while Bill Deegan packs the gear.



Jan McClure, riding Cactus Jack, rests the roan gelding while awaiting the rally participants.

Cactus Jack has won 51 first-place ribbons in horse shows across Arizona. The 6-year-old wild horse was adopted at a BLM adoption in 1987.



## BLM News Briefs



### Largest Prescribed Fire Successful

Over 15,000 acres were burned in southeastern New Mexico's Guadalupe Mountains in one of largest prescribed fires in BLM history. According to John Glenn, Roswell District fire management officer, the purpose of the treatment was to improve conditions for wildlife and livestock by invigorating desirable plant communities. Several succulent plant species were also targeted in order to release impounded water, thereby improving watershed.

The project was 2 years in the making, and involved participation of the Forest Service, National Park Service,

State of New Mexico and private landowners. Environmental assessments and an all-encompassing burn plan were completed before the first match could be struck. The BLM managed operation involved 25 people, four engines, and an aerial ignition helicopter.

Fire, once nature's way of rejuvenating ecosystems, is often suppressed by modern society. Prescribed fires have been used extensively by the BLM to duplicate the effects of natural fire.



It is not unusual to find abandoned cars in the area. Bingham reports that in a previous clean up, 30 car bodies were removed.

### Trash Force Cleans Up in New Mexico

Heavy equipment supplemented a workforce of about 35 volunteers in San Juan County, New Mexico, to help the BLM and other local cooperators remove truckloads of trash during a spring clean up held April 11 outside Farmington.

Called *Trash Force*, a special group of seven cooperators coordinated the clean up—their fifteenth such event since the group was formed in September 1990. Cooperators include the BLM; the Cities of Aztec, Bloomfield and Farmington; San Juan County; the New Mexico Environmental Improvement Department; and Waste Management of Four Corners.

*Trash Force* was named a first place award winner in the 1991 Take Pride in America state award competition for their community involvement and successful cleanups. The award was presented June 8 by

Governor Bruce King in Santa Fe as part of the annual Governor's Community Achievement Awards.

According to Farmington Resource Area's Bill Bingham, *Trash Force* coordinator for the BLM, the group was formed to deal with a longstanding problem in the area—illegal dumping. "About 94 percent of the county is publicly owned," Bingham said, "and most of that is BLM-administered land. This group is helping to clean up the area, but we're also trying to increase public awareness." He added that brochures distributed by *Trash Force* show residents where trash can be legally dumped, and that the local media has helped make residents more aware of the problem.

For more information, contact Bill Bingham, BLM Farmington Resource Area, at (505) 327-5344.

*The BLM's Farmington Resource Area oversees 1.5 million acres of land managed for multiple uses in New Mexico near the Four Corners area, including 22,000 oil and gas wells.*



## Rio Puerco Offers First Land Area For Adoption

The BLM's Rio Puerco Resource Area in Albuquerque, New Mexico, established the first Public Land Watch Area last month. In April, the Ignacio Chavez Special Management Area was adopted by the New Mexico 4-Wheelers, who patrol the area regularly. The Public Land Watch Program was designed to encourage the public to report illegal activities such as off-road vehicle use, vandalism, artifact theft, and game and fish violations on land owned by the BLM.

The Public Land Watch Program is patterned after the many successful Adopt-A-Highway and Neighborhood Watch programs around the country. Community groups adopt an area and patrol it, repairing fences, refurbishing disturbed land, and notifying the BLM of any illegal activities. In addition, the BLM posts signs, naming the adoptive group and listing phone numbers for the public to report any unlawful acts.

Although the program has only begun, BLM Multi-Resources Advisor Jon Joseph says that other groups have expressed interest in adoption, including the Indian tribes of the Zia Pueblo and the Friends of Paleontology. Groups that express interest in adoption are first instructed on safety precautions and patrolling procedures before the projects begin.

Area Manager of the Rio Puerco Resource Area, Al Abee, says the program is an example of how Total Quality Commitment can work.



"We are trying to create a work environment where employees are encouraged and rewarded for new ways to improve customer service or job performance," Abee said, "The Public Land Watch program is an example of how individual employees, in this case Resource Advisor Jon Joseph, can make Total Quality Commitment work."—Nancy Spencer, Washington D.C.

*Signs like this one will be posted along the first Public Land Watch area established recently in New Mexico. From left to right—Bob Dale, Albuquerque district manager; Pat Brady, vice president of the New Mexico 4-Wheelers; and Al Abee, area manager of the Rio Puerco Resource Area.*

## Native American Heritage Commission Thanks BLM-California

California State Director Ed Hastey was recognized by the Native American Heritage Commission through a resolution of support and appreciation for the BLM's cooperative work with the Commission for over 14 years. The Commission thanked the BLM during a March meeting for its leadership, foresight, and sensitivity to Native American issues and cultural concerns. Since cooperative programs with the Commission were initiated in 1978, the BLM has developed formal procedures to address Native American concerns in the land use planning process, avoiding conflicts before they develop through open communication and inviting participation by Native Americans in the consultation process. This approach has facilitated identification and protection of historic and cultural sites, assisted in alleviating access problems, and resulted in a number of cooperative management arrangements such as shared grazing management or the joint management of the Santa Rosa Mountains National Scenic Area near Palm Springs—the first federal/tribal management relationship in the country. According to senior social scientist Bob Laidlaw, the BLM is still expanding these cooperative management programs and is looking for increasing involvement of the Native American community as partners in the management of lands and resources in California.



## News Briefs, continued

### Deputy Interior Secretary Joins Volunteers in the BLM's Yuma District



Left to right are BLM's Mike Taylor, Les Rosenkrance and Beau McClure; Arizona Clean and Beautiful Chairman Janet McDonald; and Parker Area Chamber of Commerce members Bill Charnley and Dottie Randall.

"You can make a difference" was the theme of this year's "Adopt a Shore" campaign, and Deputy Secretary of the Interior Frank Bracken (far right) joined volunteers and BLM officials in Arizona's Yuma District to help promote good stewardship of public and private lands along the shores of the lower Colorado. The program is a joint effort between the BLM, the Arizona Governor's Office Clean and Beautiful Committee and Arizona Coor's Distributors who have donated \$20,000 to the program. The event pictured here was hosted by the BLM's Yuma District, local area chamber of commerce offices, and Sun River Distributing Company. —Jeanette Davis, Yuma District

### Progress With Partners

#### *Fish and Wildlife 2000* Meeting Brings People Together

Secretary of the Interior Manuel Lujan was the keynote speaker at the BLM's third annual *Fish and Wildlife 2000* program leaders' meeting recently held in Albuquerque, New Mexico. The event was attended by more than 100 BLMers — biologists, botanists, public affairs specialists, and program leaders — from state and district offices around the country. Reinforcing the partnership theme, representatives from a number of wildlife-related organizations and businesses also attended.

"Many BLM *Fish and Wildlife 2000* programs complement *Enjoy Outdoors America*," Lujan said. "Together, we can open our Nation's wondrous natural heritage to its owners, the American people. It should

be a great source of pride for all involved to contribute."

New Mexico Senator Pete Domenici, a member of the Senate Appropriations Committee, outlined the 1993 appropriations' process. Bill Montoya, director of the New Mexico Department of Game and Fish presented a \$259,000 check to BLM New Mexico, which represents the BLM's share of the Sikes Act program, a cooperative effort between the BLM and Forest Service.

Among topics discussed were expanding partnerships; an update on various initiatives; a review of pilot districts; a national public affairs update, and budget accountability for the BLM and integration of *Fish and Wildlife 2000*.

—Michelle Dawson Paladino  
Washington, D.C. Office

#### Shimano "Hooks Up" with BLM To Improve Fishing

The BLM and Shimano American Corporation recently signed a cooperative agreement for fishery improvement efforts to implement BLM's *Bring Back The Natives* projects. Shimano, a major fishing tackle manufacturing firm, is constructing a 30-foot custom-built pontoon boat for the BLM to be used in the Lake Havasu Habitat Improvement Project at Lake Havasu, Arizona.



# Student Conservation Association Marks 10 Years With the BLM

*"To waste, to destroy, our natural resources, to skin and exhaust the land instead of using it so as to increase its usefulness, will result in undermining in the days of our children the very prosperity which we ought, by right, to hand down to them amplified and developed."*

*-Theodore Roosevelt*

Since Roosevelt's time, and before, countless groups have banded together in an effort to preserve our American natural legacy. One such organization is the Student Conservation Association (SCA).

A Vassar College student wrote her senior thesis in 1955 outlining the concept for a

grown to be a vital source of volunteers and has also served as a training ground for future resource managers. Approximately 2,000 SCA volunteers have contributed their time and energy to the BLM in the past 10 years. Some of these individuals have gone on to careers in natural resource management agencies, including the BLM.

A cooperative agreement between the SCA and the BLM calls for the SCA to recruit and screen applicants, for the BLM to design and propose projects, and for both groups to share the costs. These include subsistence allowances, round trip transportation to and from the project location, and administrative costs to the SCA. The BLM share for one assistant on a typical 12-week project last year was \$1,825 (excluding Alaska.)

Applicants must be high school graduates and at least 18 years old. Although college attendance is not a requirement and there is no upper age limit, most resource assistants are college students or recent high school graduates between the ages of 18-23.

Resource assistants perform natural resource management duties of a para-professional nature. The work must have an educational component and be

challenging. Typical projects include timber management and reforestation, soil and water conservation, fish and wildlife habitat enhancement, surveying and mapping, field engineering, archaeological investigation, and cultural resource protection and research.

In the last 2 years, resource assistants have donated thousands of hours on projects such as spotted owl surveys in Oregon, archaeological research in the Arctic, and a fishery investigation in Alaska. Also, three special high school work groups have helped the BLM in California and Nevada. The group work focuses on construction and maintenance projects in backcountry locations and helps high schoolers learn to work together.

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*Individuals can't get the same experience at an entry level position, so volunteers benefit greatly from this program.*

*—Clair Hibler, botanist, who conducted a complete inventory of endangered plants in Oregon as an SCA assistant for the BLM*

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After 10 years, the BLM and SCA are looking forward to even greater achievements. As Director Cy Jamison says, "Our partnership can only prosper in the future."

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volunteer youth conservation program to work with the National Park Service. Two years later SCA was born. The first volunteers began working on short-term projects to protect and enhance the national park system. In the process, the volunteers gained not only an appreciation for natural resource needs but also valuable career experience.

Today the SCA's mission has expanded to include projects for other Federal agencies, including the BLM, the Forest Service, and the Fish & Wildlife Service. The SCA also works with a number of State and private natural resource agencies.

The BLM's partnership with the SCA, which just celebrated its tenth anniversary, has

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*got to experience a little bit of everything.*

*—Andy Tenney, BLM outdoor recreation planner who began with the BLM through the SCA in 1986.*

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**ALASKA****New BLM Employees**

James Herriges, Wdlf Bio, St/ White Mt. DO  
 Peter Pineault, Maint. Mech., SO  
 Denise Herzag, Spv. Mng Eng. St/White Mt.  
 John Miller, Civil Eng. Tech., SO  
 Glencora Lannen, Equal Empl. Mgr., SO  
 Linda Ricketts, Comp. Spec., SO

**Reassignments/Promotions**

Dennis Benson, Land Law Exam. to Realty Spec., Anchorage DO  
 Gary Cunningham, Lnd Law Ex., NM to SO  
 Nolan Heath, Pipeline Corridor Ofcr., SO  
 Dorothy McGuinness, Ranger to Land Law Exam., DO  
 Eva Brown, Fire Log. Ofcr., AK Fire Service  
 Jan Burris, Outdoor. Rec. Plnrr., Arctic DO  
 Robert McAlpin, Air Oper. Spec., AK F.Svc  
 Alicia Leone, Land Law Exam., SO  
 Patsy Pearson, Land Law Exam., SO  
 Kathy Stubbs, Realty Spec., Utah to Land Law Exam., SO

**Retirements(R)/Separations**

Thomas Johnson, Fuel Distrib. Sys. Worker, AK Fire Service(R)  
 Marjorie Page, Empl. Dev. Asst., SO (R)  
 William Fowler, Biol., SO  
 Bruce Giffen, Geol., Anchorage DO

**ARIZONA****New BLM Employees**

Mark Harris, BLM Ranger, Yuma DO  
 Judi Contos, Education Spec., PTC  
 John R. Welch II., Archeol., Safford DO  
 Lisandro C. Montijo, Criminal Invest., SO

**Reassignments/Promotions**

Kenneth Armstrong, BLM Ranger to Dist. Ranger, AZ Strip DO  
 Paul Sawyer, Wdlf. Mgmt. Biol., Richfield, DO to Trng. Coord., PTC  
 Anne Wood, Land Law Exam., SO  
 Olian Shockley, Land Surv., Div. Ops.  
 Joyce Bailey, Realty Spec., Phoenix DO  
 Sunny Johnson, Pgrm. Analyst to Supv. Pgrm Analyst, PTC  
 Robert Rogers, Crim. Invest. to Supv. Crim. Invest., SO  
 Virginia Kelling, Ed. Spec., PTC  
 Michael Taylor, Admn. Officer, AZ Strip DO  
 Maureen Merrell, Admin. Officer, Yuma DO  
 Frances Melanga, Ed. Spec. to Inst. Sys. Spec., PTC  
 William Deegan, AV Prod. Spec., PTC  
 Christian Dorsey, BLM Ranger to District Ranger, Yuma DO  
 Brenda Smith, Wdlfe Mgmt. Biol., Yuma DO  
 Michael Herder, Wildlife Biol., AZ Strip DO  
 Timothy Duck, Wildlife Mgmt. Biol. to

Desert Tortoise Spec., AZ Strip DO  
 William Gibson, Archaeologist, Phoenix DO  
 Levi Deike, Area Mngr., Yuma DO  
 Steve Cully, Land Surv., Div. Ops.  
 Ronald Clayton, Volunteer Coord. to Emp. Dev. Spec., Div. Admin.  
 Viola Dille, Trng. Sys. Coord. to Mgmt. & Spprt Trng. Coord., PTC  
 Jeanette Davis, Public Affairs Spec., Yuma DO  
 Noel Granzow, Mgmt. Analyst, SO to Mgmt. Analyst, PTC  
 Gregg Simmons, Plnng. & Envir. Analyst, SO  
 Stephanie Gilbert, Writer-Editor, Denver SC to Outdoor Rec Planner, SDO  
 Darlene Simpson, Comp. Pgmmr, Div. Admin. to Comp. Spec., PTC  
 William Ragsdale, Realty Spec., PTC to Outdoor Rec. Plnrr., Phoenix DO  
 Bernhart Johnson, Archaeologist, Yuma DO  
 William Wells, Comm. Spec. to Telecomm. Spec., AZ Strip DO  
 Kirby Boldan, Realty Spec., to Supv. Ops. Pgrm. Spec., Phoenix DO  
 Kent Biddulph, Landscape Arch., SO to Yuma  
 Bradley Jeffercoat, Realty Spec., CA SO to Environ. Spec., Yuma DO  
 William Yardley, Supv. Tech. Div. Spec. PTC to Realty Spec., SO  
 William Radtkey, Th/Endgrd. Species Prgm. to Prgm. Manager, SO  
 Mark Schwab, Geologist, Phoenix DO  
 James Andersen, Realty Spec., Phoenix DO  
 Brent Gaddis, Visual Info. Spec. to Comp. Spec, PTC  
 Frances Nevlis, Civil Eng. Tech, Yuma DO  
 William Carter, Phy. Sci., Pheonix DO  
 Mark Haist, Pers. Staff. Spec., SO  
 Robert Lee, Supv. For. Tech., AK to Fire Management Spec., SO

**CALIFORNIA****New BLM Employees**

Patrick Hagan, BLM Ranger, Ukiah DO  
 David A. Reynolds, Appraiser, SO

**Reassignments/Promotions**

Jerry Bronson, BLM Ranger, Barstow RA  
 Jill Miller-Allert, Otdr Rec Plan., Needles, RA  
 Kerry Schwartz, Range Con, ID to El Centro  
 Randy Lamberth, Range Tech., Hollister RAO  
 Julian Hastings, Range Tech., Folsom RAO  
 Alisa Beverly-Western, Empl. Dev. Spec., SO  
 Dennis Patterson, Range Tech., Bishop RA  
 Veronica Fortun, Outdoor Rec. Plan., California Desert DO

**Retirements(R)/Separations**

Max Sevey, Supv. Land Surv., Clearlake Field Unit (R)  
 Earle Curran, Otdr Rec. Plan., Ukiah DO (R)  
 Susan Salais, Contract Spec., SO

**COLORADO****New BLM Employees**

Martha Hahn, Assoc. SD, SO  
 Daniel Rabinowitz, Petrol. Eng., San Juan RA  
**Reassignments/Promotions**  
 Colleen Barkow, Pers. Mgmt. Spec., Washington to Pers. Ofcr., SO  
 David Bray, Supv. Nat. Res. Spec. to Asst. AM, Little Snake RA  
 Doris Chelius, Land Law Exam. to Supv. Land Rec. Spec., SO  
 Lou Ann DeVargas, Class. Spec., SC to Pers. Mgmt. Spec., SO  
 Timothy Hartzell, DM, Grand Junction DO  
 John Husband, Multi-Res. Supv., Wyoming to AM, Little Snake RA  
 Susan Mielke, Supv. Pers. Mgmt. Spec., SC to Supv. Class/Staff Spec., SO  
 Rosemary Ravenscroft, Staff. Spec., SC to Staff/Class Spec., SO  
 Catherine Robertson, AM, Clear Lake RA to AM, Grand Junction RA  
 Henry Szymanski, Petrol. Eng., WO to SO  
**Separations**  
 Rebecca Burkhead, Vol. Prg. Coord., SO  
 Carl Madison, Env. Prot. Spec., Uncompahgre

**EASTERN STATES OFFICE****Reassignments/Promotions**

Faye Winters, Wdlf. Mgmt. Biol., CA, to SO  
 Daune Winters, Res. Spec., CA, to SO

**IDAHO****New BLM Employees**

Michael Courtney, Range Con. Salmon DO  
 John Biar, Range Con., Boise DO

**Reassignments/Promotions**

Patrick Ryan, NV to Range Con., Boise DO  
 Ronald Kay, Supv. Range Con., NV to AM, Deep Creek RA  
 Michael Kochert, Supv. Raptor Res. Biol. to Res. Wdlf. Biol., RRTAC, SO W.  
 Bernard Jansen, Supv. Oper. Spec., Idaho Falls DO to Shoshone DO  
 Dennis Hoyem, AM, Bruneau RA, to Plan. & Envir. Coord., Idaho Falls DO  
 Kris Long, Pub. Afrs. Spec. to Editor, SO  
**Separations**  
 Rebecca A. Smith, Geol., SO

**MONTANA****New BLM Employees**

John Bown, Min. Plan. & Environ. Spec., SO  
 Robert Mitchell, Soil Sci., Miles City DO



**Reassignments/Promotions**

**Gary Berg**, Geol., Miles City DO, to Min. Res. Spec., Powder River RA  
**Robert Bump**, Nat. Res. Spec., Dillon RA to Garnet RA  
**Jamie Connell**, Supv. Petro. Eng., Great Falls RA, to Area Mgr., Phillips RA  
**Richard Dickman**, Lands Records Spec (ALMRS) to SO  
**Lloyd Emmons**, Land Use Spec., SO to Plan. & Envir. Coord., Miles City DO  
**Louis Hagener**, Supv. Range Con., Havre RA  
**William Hansen**, Min. Res. Spec, SO to Geol., Great Falls RA

**Retirements(R)/Separations**

**Robert Blumer**, Electron. Tech., SO (R)  
**Christopher Kelsey**, Land Use Spec., Dickinson DO  
**David Wallace-Menard**, Pos. Class. Spec., SO

**NEW MEXICO**

**New BLM Employees**

**Eugene Hunt**, Pet Eng. Tech., Carlsbad RA  
**Kathleen Mulkey**, AV Prod. Spec., SO  
**Warren Templeton**, BLM Ranger, Socorro RA

**Reassignments/Promotions**

**Bruce Davis**, Geol., to Hydrol., Farmington RA  
**Eldred Lesensee**, Appraiser, SO, to Albuq. DO  
**Cathleen Cooney**, Supv. Mgmt. Anal., to Records Admin., SO  
**Rudolph Baier Jr.**, Petl. Eng., WO to SO  
**Alvin Pack**, Supv. LM&R Spec. to Supv. Realty Spec., SO  
**Reed Smith**, Supv. Mining Eng., WO to E&MR Prog. Mgr., SO  
**Tim Sanders**, Environ. Spec., SO to Supv. Multi-Res. Spec., Caballo RA  
**Susan Pepperney**, Geol., Washington, to SO  
**Russell Jentgen**, Supv. Geol. to Las Cruces DO  
**Francis O'Neill**, Albuq. DO to Paleon., SO  
**Howard Parman**, Forester, OR, to Pub. Afrs. Spec., Roswell DO  
**Timothy O'Brien**, Nat. Res. Prot. Spec., Utah, to Supv. Mineral Res. Spec., Carlsbad RA  
**Timothy Murphy**, Asst. AM, Carlsbad RA to AM, Caballo RA  
**James Wolf**, Telecomm. Spec., SO

**Retirements(R)/Separations**  
**William F. Harrell**, Telecomm. Spec., Las Cruces DO (R)  
**Raymond V. Whedon**, Comp. Spec., SO

**OREGON**

**New BLM Employees**

**Donald Porior**, Supv. Civil Eng., Coos Bay DO  
**Kathryn Winthrop**, Archeol., Medford DO

**Steven Hofford**, Hydro., Roseburg DO  
**John Tappeiner II**, Research Forester, SO

**Reassignments/Promotions**

**Eric Greenquist**, Wdlf. Biol., Eugene DO  
**Jerry Taylor**, AM, Vale DO  
**Polly Elliott**, ADM for Admin., Eugene DO  
**Eugene Youngman**, Supv. Cmp. Spec., Eug. DO  
**James Beltram.**, Spv. Cntrct Spec., Medford DO  
**Wayne Kuhn**, Assoc. DM, Medford DO  
**Kay Braithwaite**, ADM Admin., Medford DO  
**Roy Hogue**, Comp. Spec., Prineville DO  
**William Lindsey**, Range Con., Nevada to Lakeview DO  
**Theodore Davis**, Supv Nat. Res S, Roseburg DO  
**Joan SeEVERS**, Botanist, Medford DO  
**Sherrie Reid**, EEO Spec., SO  
**Edward Zigoy**, Carto. Tech., SO  
**Philip Stanbro**, Supv. Plan. & Environ. Spec., SO  
**Janice Conn**, Safety and Occ. Health Mgr., Medford DO

**Charles Boling**, Criminal Invest., SO  
**Jeannette Griese**, Forester, Roseburg DO  
**Jill Benefield**, Park Ranger, Roseburg DO  
**Todd Thompson**, Wdlf. Biol., Spokane DO  
**Dayne Barron**, Forester, Roseburg DO  
**Louis Willcox**, Admin. Ofcr., Roseburg DO  
**Paul Ausbeck**, Forester, Roseburg DO  
**Ruby Silver**, Sup. Svc. Supv., SO  
**Gerard Hubbard**, Mgmt. Anal., SO  
**Anthony Do**, Comp. Spec., Roseburg DO  
**Mark Yeiter**, Forestry Tech., Salem DO  
**Patrick Olmstead**, Fish. Bio, ID to Coos Bay DO

**Retirements(R)/Separations**

**Philip Hamilton**, Environ. Plan. Spec., SO (R)  
**Norman Wood**, Cvl Eng. Tech., Salem DO (R)  
**Pamela J. Sighting**, Forester, Coos Bay DO  
**Darren R. Breckenridge**, Land Surv., SO  
**Terry L. Eccles**, Outdoor Rec. Plan., Salem DO  
**Edward F. Patalik**, Forester, Coos Bay DO

**UTAH**

**New BLM Employees**

**Jerome E. Sempek**, Nat. Res. S, Cedar City DO

**Reassignments/Promotions**

**Rody P. Cox**, Geol., Richfield DO  
**Patricia Garlett**, Admin. Ofcr., Moab DO  
**Timothy Blake**, Range Tech., Moab DO  
**Wendie Nay**, Comp. Spec., Richfield DO  
**Elizabeth Goode**, Admin. Ofcr., Vernal DO  
**Tanya Bullock**, Comp. Spec., Vernal DO  
**Leah Quesenberry**, Otdr Rec. Plan., Moab DO  
**William Curtis**, Range Con., Moab DO  
**Sherwin Sandberg**, Supv. NRS, Moab DO  
**Gale Bennett**, Range Tech., Richfield DO  
**Michael O'Donnell**, Supv Plan Spec, Moab DO  
**Suzanne Garcia**, Rec. Coord., SO  
**Jane Levy**, Outdoor Rec. Plan., Moab DO

**Vernon Isaacs**, Supv Cvl Eng. Tech., Vernal DO  
**Separations**

**Abijah Cook**, Realty Spec., Salt Lake DO

**BOISE INTERAGENCY FIRE CENTER (BIFC)**

**New BLM Employees**

**Richard Williams**, Airplane Pilot  
**Reassignments/Promotions**  
**Robert Strahler**, Supvry Facilities Mngr

**SERVICE CENTER**

**New BLM Employees**

**Michael Peeler**, Comp. Spec., ALMRS/Modern.  
**Sandra Romero**, EE Spec., Ofc. of SCD  
**Christopher North**, Prog. Anal., ALMRS/M  
**Theodore Zeisig**, Comp. Sys. Anal., ALMRS/  
**David Whitt Jr.**, Con. Price Cost Anal., Div of Admin. Svc.  
**Cynthia Vitale**, Comp. Spec., ALMRS/M  
**David Roybal**, Comp. Spec., Div of Sys. Ops  
**James Martz IV**, Qual. Assur. Spec., ALMRS/  
**James McGinley**, Comp Sys Prog, Div Sys. Ops  
**Harold Coleman**, Contract Spec., Div of Admin. Svc.  
**Stephen Clemmer**, Comp. Spec., ALMRS/  
**Ronald Bailey**, Con. Price Cost Anal., Div of Admin. Svc.  
**James Ross**, Telecomm. Spec., Div Sys. Ops.  
**Mark KeLand**, Law Examr, Comp. Sys. Anal., Div of Proj. Mgmt.

**Reassignments/Promotions**

**Iris Matney**, Supv. Comp. Spec., Div Sys. Ops.  
**Jack Peterson**, Assoc. SCD, Ofc. of SCD  
**James Gazewood**, Petrol. Eng. to Comp. Spec., ALMRS/Modern. Proj.  
**Elizabeth McDill**, Contract Spec., Div of Admin. Svc.  
**Norma Reitsma**, Comp. Prog. Anal., to Comp. Spec., Div of Proj. Mgmt.  
**Verna Glasmann**, Supv. Oper. Acctnt. to Supv. Acctnt., Div of Finance  
**Robert Walton**, Supv. PMS, to Supv. Pers. Staff&Class. Spec., Div of Pers.  
**Suzanne Jamiel**, Pers. Staff. Spec., to Empl. Rel. Spec., Div of Pers.  
**Joanne Swartz**, Comp. Spec., Div of Fince  
**Cynthia Steinheimer**, Pos. Class. Spec., to Empl. Rel. Spec., Div of Pers.  
**Jenny Saunders**, Supv. Data Integ. Spec., to Supv. Data Recds/Modling Spec., Div of Proj. Mgmt.

**Separations**

**Michael Thompson**, Supv. Data Recds/Modling Spec., Div of Proj. Mgmt.



## Angling Opportunities Looking Up on Lake Havasu

The BLM and Anglers United have formed a partnership to upgrade recreational fishing opportunities on Lake Havasu in the desert southwest. The lake, on the border of California and Arizona, is 45 miles long. Called the biggest warm water fisheries improvement project ever undertaken in America, the plan includes restoring underwater fish habitat, improving access for shore-line fishing, and building trails, restrooms, picnic and parking areas, fish cleaning stations and docks. Additional partners are the Bureau of Reclamation, the Arizona Game and Fish Department, and the California Department of Fish and Game. —*Jeanette Davis, Yuma District*



Director Cy Jamison inaugurates the partnership for Lake Havasu while (left to right) Anglers United member Al Layton, Deputy Secretary of the Interior Frank Bracken (kneeling), BLM Arizona State Director Les Rosenkrance and Anglers United Executive Director Dave LaMorte look on.



Underwater fish habitat structures are an important component of the improvement project. Here, bass shelters are launched, and brush bundles (right) will follow.

*Five honored, continued from page 8*

state director in Montana, where he developed innovative approaches to meet endangered species requirements and prepared social and economic analyses during land use planning.

John H. Bogacki received the Valor Award for saving the life of an automobile accident victim, trapped in her vehicle in a narrow stretch of Kern Canyon in California. He directed the pilot of a rescue helicopter to maneuver in and out of the accident area, allowing the victim to receive medical attention quickly.

Both Stephen J. Vandas and Elaine F. Marquis-Brong received the Secretary's Stewardship Awards. Vandas, a BLM employee on loan to the U.S. Geological Survey (USGS), was recognized for his work to improve science education at the kindergarten through twelfth grade levels. As project chief of the USGS's Water Resource Education Initiative, he published the first of several educational posters featuring water-resource concepts.

Marquis-Brong, manager of Kingman resource area, was recognized for innovative

resource management planning for 3 million acres in Mohave County, Arizona. She also organized a tri-agency task force of the BLM, the Arizona Department of Game and Fish, and the National Park Service.

The BLM's Idaho Integrated Workforce Committee received the Secretary's Annual Equal Opportunity Award for their efforts in work force diversity in the Idaho BLM.

—*Nancy Spencer, Washington D.C. Office*

